AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-36 (Cancelled).

37. (Currently Amended) A system architecture for managing a telecommunication communication network comprising network equipment, said equipment having associated control interfaces, the architecture comprising:

a base layer <u>for proxying said interfaces</u> and for decoupling said interfaces from management functions, <u>said base layer comprising distributed process executors to execute in a distributed manner processes concerning management of said network, each process executor comprising at least one of a workflow engine, a rule engine, and a combination thereof; and</u>

a support layer <u>superposed to said base layer and comprising a plurality</u>

comprised of a community of agents co-ordinating operation of said base layer in order to support distributed management functionalities, <u>said base layer and said support</u>

layer constituting separated superposed layers in said architecture.

38. (Currently Amended) The architecture of claim 37, wherein said distributed <u>management</u> functionalities include FCAPS (Fault, Configuration, Accounting, Performance, Security) functionalities.

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39. (Previously Presented) The architecture of claim 37, wherein said base layer comprises:

a sub-layer of protocol adapters for interfacing a set of network equipment offering a given protocol; and

a sub-layer of resource proxy modules, each said proxy module providing a representation of the configuration of given network equipment according to a defined information model.

40. (Previously Presented) The architecture of claim 39, wherein said resource proxy modules are configured for aligning said representation to the network of given network equipment by at least one operation selected from the group of:

performing all the management actions on said network by invoking operation through at least one associate protocol adapter;

receiving at said resource proxy modules all the notifications sent by said network equipment; and

performing a periodical verification of alignment between the representation of the network equipment and said network equipment.

41. (Previously Presented) The architecture of claim 40, wherein said resource proxy modules are configured for enrichment with element manager information.

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42. (Currently Amended) The architecture of claim 40, wherein said resource

proxy modules are configured for running processes using said a process executors.

43. (Previously Presented) The architecture of claim 40, wherein said

resource proxy modules are configured for interacting directly with one another in an

interworking relationship.

44. (Previously Presented) The architecture of claim 37, wherein said agents

in said community are configured for running vendor and technology independent

services.

45. (Previously Presented) The architecture of claim 37, comprising at least

one manager application configured for performing functions selected from the group of:

managing distribution of processes between said base layer and said support

layer;

managing distribution of information models between said base layer and said

support layer;

monitoring the state of the architecture on the basis of information provided by

said agents in said community;

interacting with external systems; and

executing management processes.

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46. (Previously Presented) The architecture of claim 45, wherein said at least

one manager application comprises a separated, additional upper layer in said

architecture.

47. (Previously Presented) The architecture of claim 45, wherein said at least

one manager application is at least partly integrated to said support layer.

48. (Previously Presented) The architecture of claim 37, wherein all said

layers in said architecture include process executors.

49. (Currently Amended) The architecture of claim 48, wherein each of said

process executors in each of said layers comprises at least one of a workflow engine, a

rule engine and a combinations combination thereof.

50. (Previously Presented) The architecture of claim 37, comprising agents

hosted on different machines, said agents being movable among different machines.

51. (Currently Amended) The architecture of claim 37, wherein said layers in

said architecture include components adapted to perform respective functions based on

respective instructions instruction information provided to them, and a data base is

provided storing said instruction information, the architecture being arranged for

distributing said instruction information from said data base to said components.

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52. (Currently Amended) The architecture of claim 51, wherein said

instruction information comprises at least one of:

process definitions such as comprising at least one of workflows and rules; and

data model definitions.

53. (Previously Presented) The architecture of claim 51, comprising at least

one manager application configured for managing distribution of information models

between said base layer and said support layer, said data base being associated with

said at least one manager application.

54. (Currently Amended) A method of managing a telecommunication

communication network comprising network equipment, said equipment having

associated control interfaces, the method comprising the steps of:

providing a base layer proxying said interfaces and decoupling said interfaces

from management functions;

executing, in said base layer, distributed processes concerning management of

said network, each of said processes comprising at least one of workflows, rules, and

combination thereof; and

supporting distributed management functionalities via a support layer superposed

to said base layer and comprising a plurality comprised of a community of agents co-

ordinating operation of said base layer, said base-layer and said support layer

constituting separated superposed layers in said architecture.

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55. (Currently Amended) The method of claim 54, <u>further</u> comprising the steps of including FCAPS (Fault, Configuration, Accounting, Performance, Security)

functionalities as said distributed management functionalities.

56. (Currently Amended) The method of claim 54, further comprising the

steps of:

providing a sub-layer of protocol adapters for interfacing a set of network

equipment offering a given protocol; and

providing a sub-layer of resource proxy modules, each said proxy module

providing a representation of the configuration of given network equipment according to

a defined information model.

57. (Currently Amended) The method of claim 56, further comprising the step

of configuring said resource proxy modules for aligning said representation to the

network of a given network equipment by at least one operation selected from the group

of:

performing all the management actions of said network by invoking

operation through at least one associated protocol adapter;

receiving at said resource proxy modules all the notifications sent by said

network equipment; and

performing a periodical verification of alignment between the

representation of the network equipment and said network equipment.

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58. (Currently Amended) The method of claim 57, <u>further</u> comprising the step

of configuring said resource proxy modules for enrichment with element manager

information.

59. (Currently Amended) The method of claim 56, further comprising the step

of configuring said resource proxy modules for running processes using a process

executor.

60. (Currently Amended) The method of claim 56, further comprising the step

of configuring said resource proxy modules for interacting directly with one another in an

inter-working relationship.

61. (Currently Amended) The method of claim 54, further comprising the step

of configuring said agents in said community for running vendor and the technology

independent services.

62. (Currently Amended) The method of claim 54, further comprising the

steps of providing at least one manager application for performing steps selected from

the group of:

managing distribution of processes between said base layer and said support

layer;

managing distribution of information models between said base layer and said

support layer;

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monitoring the state of said layers on the basis of information provided by said

agents in said community;

interacting with external systems; and

executing management processes.

63. (Currently Amended) The method of claim 62, <u>further</u> comprising the step

of configuring said at least one manager application as a separated upper layer in

addition to said base proxying layer and said support layer.

64. (Currently Amended) The method of claim 62, <u>further</u> comprising the step

of at least partly integrating to said support layer said at least one manager application.

65. (Currently Amended) The method of claim 54, <u>further</u> comprising the step

of providing process executors in all said layers.

66. (Currently Amended) The method of claim 65, further comprising the step

of providing in said process executors at least one of a workflow engine, a rule engine,

and combinations thereof.

67. (Currently Amended) The method of claim 54, further comprising the

steps of:

hosting at least part of said agents on different machines; and

moving said agents among different machines.

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68. (Currently Amended) The method of claim 54, <u>further</u> comprising the steps of:

including in said layers components adapted to perform respective functions based on respective instruction information provided to them;

providing a data base for storing said instruction information; and distributing said instruction information from said data base to said components.

69. (Currently Amended) The method of claim 68, <u>further</u> comprising the step of providing in said instruction information at least one of:

process definitions such as comprising at least one of workflows and rules, and data model definitions.

70. (Currently Amended) The method of claim 68, <u>further</u> comprising the steps of:

providing at least one manager application configured for managing distribution of information models between said base layer and said support layer; and associating said data base with said at least one manager application.

71. (Currently Amended) A communication system comprising:

a network including network equipment, and

associated to control interfaces and with- a management system architecture
according to any one of claims 37 to through 53 and 73 for managing said network.

72. (Currently Amended) A computer program product capable of being-loaded in the memory of at least one computer and including software code portions for-performing the steps of the method of any one of claims 54 to 70 -readable medium storing instructions for execution by a processor, the instructions when executed by a processor performing a method of managing a communication network comprising network equipment, said equipment having associated control interfaces, the method comprising:

providing a base layer proxying said interfaces and decoupling said interfaces from management functions;

executing, in said base layer, distributed processes concerning management of said network, each of said processes comprising at least one of workflows, rules, and a combination thereof; and

supporting distributed management functionalities via a support layer superposed to said base layer and comprising a plurality of agents co-ordinating operation of said base layer.

73. (New) The architecture of claim 39, wherein said resource proxy modules can support FCAPS (Fault, Configuration, Accounting, Performance, Security) functionalities.

74. (New) The method of claim 54, further comprising supporting FCAPS (Fault, Configuration, Accounting, Performance, Security) functionalities via said resource proxy modules.